



O T V A R C

OCT-NOV 1980

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB
PO Box 5132 Beaverton, Oregon 97006

Next meeting: Wednesday-November 19-7:00 PM 1980
Elmers Pancake House-Beaverton Mall (6:30 for dinner)

Many thanks to W7ZOI for a neat program. He sure had some nifty looking home brew gear. If we all had that QRP gear we could operate out of a suitcase instead of taking up a whole room. Would YOU be willing to part with your linear? Didn't think so!! Well-to each his own so they say. Thanks again Wes....

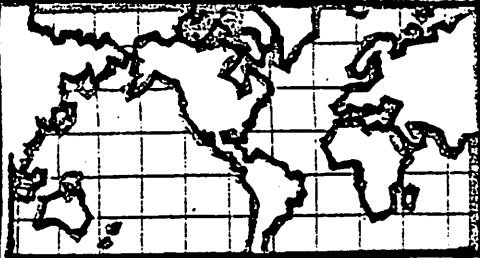
Another thank you to Ron Mayer, K7BT, our Northwest Vice Director for the ARRL, for attending our meeting and making our ARRL affiliation charter presentation. Kind of neat after all this time to finally have it. There are a number of nice benefits to be had by affiliation and the club should be all the better for it. Pictures, in the usual tradition, were taken after the meeting and it is hoped that we will get a blurb in QST...

An aside in regard to ARRL affiliation. If your date comes up for renewal with the ARRL, PLEASE do so through the club. The ARRL kicks back \$1.50 of your dues to the club. Not a great deal of money but multiplied by the number of ARRL members we have it could add up to financing a piece of gear, raffle items or help to pay for a club party. Give it some thought and help your club. If you have any ? give Warren, our Treasurer, a call at 649-8898. THANKS!!

Speaking of support, Portland Radio came through with an ARRL handbook, Ron, K7BT donated a handbook and the Watt Shop gave us a soldering iron, coax connectors, QSL holders and 25 WOODEN NICKELS worth a free PL259. Add it all up and it comes pretty close to \$100.00. This includes the Hints and Kinks book and the two free dinners donated by the club treasury. For your info, we take in about \$50.00 on a raffle and it is VERY necessary that we do so. Another BIG thank you to Portland Radio and the Watt Shop. Before you buy by mail, get in there and try to talk them down in price. You might be surprised!!! Thanks Joe and Dan,....

Congrats to Mac, W7KBR, on his recent wedding. Seems to be a very nice lady. Hope to see you BOTH at the meeting.

Got a new raffle donor. Electra Tech of Hillsboro has been kind enough to offer some goodies and that is neat. As the club grows larger it will give us more winners and don't think anybody minds that. SURE helps the treasury!!!!



DX WORLD

Algeria

Ahmed, 7X5AH, can be found on Thursdays, 0100 UTC on 14.210 to 14.220 MHz. And, again at 0400 UTC on 75 meters between 3.790 and 3.795 MHz. QSL via AD1S.

Other stations reported to have been on from this country include: 7X2SX 14.027 MHz 2050 UTC, 7X4MD 21.280 1900, 7X2BK 21.318 1600, 7X5DM 14.213 0000, and 7X4AY 21.350 2100.

South Cook Islands

Chris Eve, ZK1CE, works from a list by his QSL manager, AD1S, on 14.220 or 14.270 MHz from 0500 UTC on Fridays.

Another active station is Roger, ZK1CF, who also made a trip up to the North Cook Islands for a little activity. There are a few other stations on from this area in addition to the above two.

Western Caroline Islands

Brian, KC6DC, works from several lists by AD1S. Take a listen from 0530 UTC on Saturdays at 14.270 MHz and from 1030 UTC Sundays. From 0900 UTC on Saturdays he can be found on 3.790 MHz.

Gus, formerly WA1KRR/KH0, arrived on Yap, 21 August, and should be active as KC6DE and KC6CG.

Solomon Islands

And another list operation by AD1S is with Stuart, H44SH, who can be found on 14.270 MHz from 0530 UTC Wednesdays. Also check 14.220 MHz from 1100 UTC on weekends.

Rwanda

Look for 9X5KE, who keeps a Thursday schedule at 1930 UTC on 21.265 MHz. QSL this one via P.O. Box 202, Gisenye, Rwanda.

Seychelles

Although S79MC is frequently found on 21.280 and 21.320 MHz from 1700 UTC, he will give you a CW contact if requested.

Comoros

It has been reported that D68AP has resumed his Thursday schedules from 1830 UTC on 21.285 MHz. If that is a bad day for you, then look for D68AS on Mondays and Fridays on 21.320 MHz at 0650 UTC and 14.175 MHz at 1930 UTC.

A FUNNY !! Just for grins: The space cadet's guide to DX John Yodis, K2VV

The current sunspot peak is the first one for many new amateurs and has introduced them to DXing. To aid the newcomer in his eventual quest for Honor Roll, the DXH & PDS* (ENY Division) has assembled these worthwhile tips on DXing, reflecting years of operating experience:

The Pileup

1. In any pileup, always give the DX station's call three, or four times before your own. After all, with 300 people on frequency, the DX station may not think you're calling him. Besides, if he's on a DXpedition, he may be using an unfamiliar call and probably needs to be reminded of it.

2. If the pileup starts getting too big and the DX operator gets up to 200-250 QSOs per hour, it's nice to help him catch his breath. When he says, "WA2XXX 59 over," come back with your name and QTH (phonetically, of course); don't forget the weather and your shoe size, either. The more time you take, the longer everyone on frequency can rest.

3. Don't stop calling just because the DX station answers someone else. Chances are he just has your call wrong. when he calls for "the YL WB9 ending with foxtrot," tell him it's KA2, not WB9, and the last letter is tango, not foxtrot. If you don't get through the first time, keep trying; you'll be recognized.

4. If tempers start to flare, make sure to jump in with your two cents worth. A three-minute lecture on manners is always appreciated, especially when you have a captive audience by transmitting on top of the DX station. Also, it's always important to complain about the occasional jammers; otherwise they wouldn't know if they were bothering anyone and would probably go away.

The QSO

1. Most DX stations don't speak much English and rely on Amateur Radio to improve their fluency. You can help them by observing a few simple rules:

- Speak as fast as possible.
- Run words together.
- Slur or mumble a lot.
- Don't use a small, simple word when you can encourage him to look up a long, useless one. Most Russians know what rain and snow are, so use "drizzle" or "sleet" to improve their vocabularies.

2. A simple 5/9 report to DX is not considered polite, especially among 20M big guns. Even if the DX station is 4/6, tell him he is 30 dB over S9. This is very discouraging to other people who start wondering why they can't hear him that well and go out to check their antennas rather than annoy

the DX station by calling him. It's also a great ego trip for a DX station running 8 watts to an indoor dipole. If you feel guilty about doing this, just re-zero your S-meter to S9+5dB.

3. Always mention that you're beaming the long path, no matter who you are working (after all, Missouri is long path Europe). This impresses others with your knowledge of propagation and attracts stations who might otherwise ignore you, VE4s, for instance.

Extensive use of these techniques by hundreds of amateurs has given them reputations they had never expected. Two are even rumored to be closing in on WAC!

*DX Hoggery and Poetry Depreciation Society
— QRZ/DX

Let's see. How's that go? Is the shoe fits - H m m m !

The super Extra-Class amateur exam

Phil Anderson, W0XI

Get 16 out of 20 right and you have passed the super-Extra exam. We'll give you the answer to No. 8 as an example.

I

8. sphere , ionosphere or i o n o sphere.

1. A

2. 3333333

3. evaw

e

d

4. a

r

g

5. sea uu

6. 99999 9

7. ax ax

dB

9. dB

dB

10. res

ant

11. WtOuRnLeD

t

i

12. modulation

n

13. 3.14 net

14. T U

band

E N

15. KbErYeIaNkG

16. b a n d

17. dipole

18. x AM

s

19. l

o

w

20. meter meter

Last page for answers

Be a booster! Order a club jacket.

Call Warren 644-0752

Good Luck !

39 days till XMAS



WELCOME-WELCOME-WELCOME

Five new members this month and we would like to take this opportunity to welcome you all to OTVARC. It is hoped that you will wade right in and help the club to be succesful. We greet the following new members: Dick Bixler, WA7DKF, Carl Henniger, KA7GHR, Linda Cereghino, novice student, Bradley Beach, no call, and Ralph Karls, WB7VGS. Sure hope you enjoy the club and our activities.....

ANNUAL ELECTIONS

At our Nov. meeting we will take nominations for the 1981 offices. A ballot will be made up and included in the December newsletter and of course the voting will take place at the Dec. meeting. By ballot!! It would be desirable to have at least two nominations per position however we will go with the wishes of all. Look forward to seeing a BIG group.

MISSING IN ACTION

VERY sad news..... Should call this the Silent Mic section. Had a few delinquents at the last meeting and just wonder where they are hiding?? Have'nt seen Dave Parker for a coons age. Jim Greathouse is'nt far behind. Let's see- John Webb, Al Herman, Larry Ogburn, Gordon Sahnaw Jr., Kirk Johnson, Bill Oliver, George Morgan, Jeff Asay and a few others were notably absent. All these guys are interested in the club so guess they either work nights or they are Hen-Pecked. That comment will get a rise out of NANCY. Will probably get a phone call and a threat to do bodily harm. Oh well, non-members don't count anyway. Actually, our meeting attendance has been running about 75% and that is not too bad. MASSIVE attempts have and are being made to line up good programs but sure hope there are other reasons that bring you to the meetings???? Dog and Pony shows are not easy to come by and one of these months we just might not have a program. DISASTER!! If you have any ideas you just might make them be known. NO family type home movies will be acceptable unless, of course, you live in a nudist colony. Seriously, give a call.....

CONTEST COMMITTEE

Alan Marks, our organizer for the above named group, will be calling some of you in the near future and asking to have a get-together to formulate plans for the obvious activity. Names were derived from the hand-raising we did at one of the meetings and also from some guesstimating. This should be a FUN activity so hope that when you get a call you will at least attend the first committee meeting.

FOR SALE SECTION

zilch

Look around the shack-must be something inoperative!

HALLOWEEN PARTY

Bob and Janet Dunshee came through again. The use of their barn was appreciated very much. If you stayed home because of the cold-tch-the club rented a space heater and all were toasty. Cider, games and dancing were enjoyed by all. John Reed won the best costume prize with a far-out Star Wars outfit. Hope the Reed's enjoy using the \$15.00 turkey gift certificate. Doug wore an honest to goodness real pumpkin for a mask. Sure hope he took the seeds out. Dennis wore an ape outfit and word is he did a lot of chest beating. Was that real hair Dennis? If you missed the party, try next year!!

How to locate radio/television home interference

By Larry, AAR40E

1. Go to your main fuse or circuit breaker panel with a battery-operated transistor radio tuned between stations and listen for the noise. (If at night or in an enclosed room, be sure to have working flashlight with you.)

2. If the noise is present and corresponds to the disturbing interference, shut off all power to your premises by opening the MAIN circuit breaker, switch or other enclosed service disconnect. Do not attempt to remove cartridge fuses or operate exposed or open-type disconnects if physical contact with the electrical circuit is at all possible.

If the noise on the battery-operated radio stops, the source of interference is within your own premises.

Restore the MAIN circuit breaker, switch or disconnect.

3. Assuming the noise stopped while your electric service was off, you can now locate the noise source.

While monitoring the transistor radio as before with the noise present, open individual sub-main circuit breakers one at a time until the noise disappears.

You must now determine what has been turned off by going from room to room, checking outlets, appliances and lights for the absence of electricity. The offending noise source will be something on this circuit.

If the noise is steady, look for a running electric motor, fluorescent lighting fixture, light dimming switch, paddle fan with a silicon controlled rectifier in the circuit, or some other radio or television equipment.

Devices most commonly found on private premises that cause intermittent radio or television interference are: heating pads, electric blanket controllers, tropical fish aquariums, refrigerators (butter conditioners), door bell transformers and/or flashing decorative lighting.

The care and feeding of Nicad batteries

Jerry Ziliak, KB6MT

Most of us have or will have rechargeable batteries in our projects and radios. As time progresses, the Nicad battery is becoming a popular source of storable energy. These batteries are here to stay, but they do have some shortcomings.

The most common fault is a battery that will not take a charge and electrically looks like a short; this will happen after a period of non-usage. The cure is simple. Using a healthy power supply, force enough current through the battery to bring the terminal voltage up to 1.5 volts. You may have to force as much as ten times the normal charging current. As the battery begins to take a charge you will see the current start to go down as the battery voltage rises. This process usually takes about ten seconds. When the voltage reaches 1.5 volts, charge as per the manufacturer's specs. Another typical problem is a cell that won't accept a charge and looks like an open cell. The cure for this (sometimes) is to charge in the reverse direction for five minutes at no more than 100 mA. After this, try to charge the cell as normal. If it still won't take a charge, use as a paperweight, coil winding form or circle drawing aid!!

4. It is important for your own benefit to have the offending device checked and/or repaired to insure normal safe operation.

5. The interference produced by these devices will travel through the house wiring out to the power line, down to the power transformer and through the service wires to each of the houses on the transformer. Therefore, if you don't find the source of interference in your house, it may be coming from one of your neighbors. If so, be diplomatic and ask for your neighbor's help. This will be the quickest and easiest way to solve the problem and keep on friendly terms with your neighbors.

Good luck.
— Florida Skip

How about a battery pack that won't take a charge or will not charge up to the proper voltage? Regardless of the pack voltage, it is made up of individual cells that are rated at 1.25 volts each. What happens is that one (or more) of the cells becomes discharged more than the rest. When charging is attempted, the low cell (or cells) is reverse charged with respect to all of the other cells; this makes the entire pack look bad. The solution is simple:

1. Use a sharp knife and cut the jacket off the battery pack to expose the individual cells. Do not cut the wire straps that interconnect the cells.

2. Measure the voltage of each cell. You will find one or more cells lower than the rest.

3. Discharge all the good cells one at a time with a 1 ohm resistor until each of the good cells' voltage drops to .9 volts.

4. Charge all of the cells one at a time at 50mA. for one hour.

5. Tape the cell pack back together with masking tape or electrician's tape. Charge battery pack per manufacturers instructions on battery pack. Normal charge is 10 percent of the discharge current/hour rate printed on battery for 16 hours. An example is: if a cell rating printed is 500mA. hour, you would charge at 50mA. for 16 hours.

If you have a constant current power supply, you can quickly charge any Nicad battery or battery pack by charging for four hours at 3.5 times the regular charging rate.

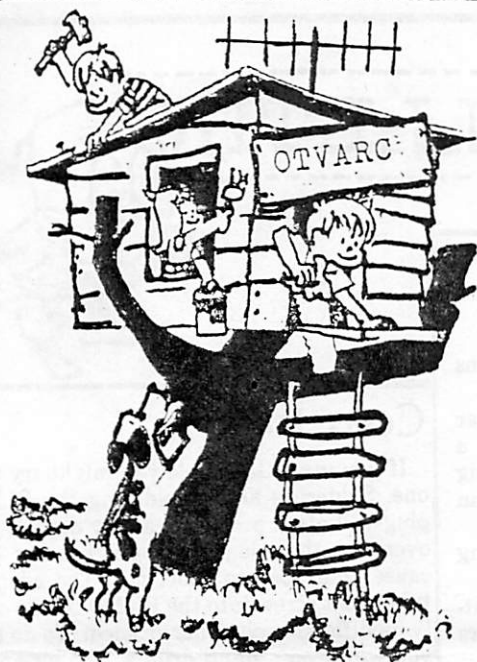
Normal charge rates at 16 hours for standard cells is as follows:

"AA" size cell — 50mA.

"C" size cell — 100mA.

"D" size cell — the same as "C" cell. Inside of the "D" cell is a "C" cell. The packaging is only larger.

Most articles are courtesy of World Radio. Not enough time or smarts for original stuff.



SAME OLD SUBJECT

Sorry to raise an old subject but it bares repeating. Several people have expressed concern regarding the size of the club. Not too long ago it was very small and everybody knew everybody. The rapid growth rate we have experienced has, without question, caused a very REAL problem. Not one that cannot be solved but it will take the co-operation of the entire membership. The only way is for YOU to participate in the club activities. Our REAL social functions have not been that numerous to date but they will be. The upcoming contest group is an example as is the planned

'Test Gear' training sessions. These are not REAL social get-togethers but the barn dance was and the turnout was not all that good. You say you don't like to dance? A lot of people didn't but the socializing was there and that is what we need. There may be some of you who, being new in the club, don't feel comfortable mingling with some of the seemingly, to you, know-it-all-guys. WRONG!! One of the best things I can think of in regard to that subject is that in a locker room shower the corporate executive doesn't look any better than YOU and probably worse..... The MOST impressive person to date, as regards club activity, is Bill Gochenour. Here is a guy who, at his FIRST meeting, came up front and said "I want to get involved and help". And he has! You might be interested to know that he holds down two jobs but has found the time to attend EVERY club function since he joined. This is not an article to express gripes but merely to try and explain why we have the (minor) problem and the obvious solution. The Hoodview club has almost twice as many members as we and they are very successful. They have been around for awhile and have numerous outside activities. WE WILL ALSO!! Hang in there and give the dust a chance to settle. And in the meantime, try to remember that if you just sit and enjoy, the problem (for you) will NOT go away.....

10m FM

Looks like Doug, W7XI, has regained interest in the project. For those of you who forked over the green stuff, Hi-Gain boards have become very popular. A shortage!! It might be a good idea to furnish Doug with 4 quarters, 3 dimes, and 2 nickels to make a phone call to THE company and try to get some results.. Hey XI, 10m is going to go away one of these days!!!! If some of the newer members don't know what this is all about, be informed that we are going to build mobile 10m FM rigs from surplus Hi-Gain CB boards. This will be in a class type atmosphere and each step of construction will be explained. If you are interested, give Doug a call at 245-2571. Plenty of time yet!!



NEWS

BULLETIN



Nov. meeting -
NOMINATIONS !!!
Please ATTEND...

Why join RACES?

Harry L. Wolter, WA6WYP

Communications is the keyword to any successful response to disaster. Without rapid and accurate communications, there can be no effective coordination of all the diverse activities that go into emergency operations. When existing communications systems prove inadequate to meet the demands any disaster creates, RACES must assure that essential messages are transmitted and vital activities are coordinated.

RACES is a disciplined organization of Amateur Radio operators who help supplement state and local civil defense communications systems in time of emergency. In peacetime, natural or man-caused disasters pose a constant threat to the public welfare. When disaster strikes, normal communications systems are often totally destroyed or sustain extensive damage, and it is during these times that Amateur Radio operators must handle messages of vital importance for police, fire, rescue and other emergency services. Amateurs can provide the indispensable communications links between emergency operating centers and various levels of government.

In wartime, regular amateur operations would cease in the event of enemy attack. RACES, however, under presidential proclamation, would be the only Amateur Radio stations allowed to operate — using specific frequencies within authorized frequency bands and under the direct supervision of the duly designated and responsible officials of civil defense.

RACES stations operate under the direction of state or local government officials in conformance with the civil defense communications plans of those governments. Operating frequencies allocated by the FCC are restricted to regular amateur bands. Every RACES station is a member of one or more emergency nets. These nets in turn constitute a means of cross-communications whereby all levels of government, city and town emergency operating centers, and outlying areas can be kept in contact with one another.

Technicians deserve respect

One of the most revealing conversations I've ever heard involved two amateurs.

An Advanced, who was new to 2-meter FM and didn't know a squelch tail from a whistle-on, was discussing the great big world of 2 meters with a friend, who was an Extra.

The Advanced said there was one thing bothered him about 2-meter FM.

"Do you realize," he asked, "those lousy little Technicians can use the same repeaters we use?"

His friend agreed it was a deplorable situation. No respect.

This viewpoint ignores the part Technicians played in development of VHF and UHF. And the fact that the Technician license was created by the Federal Communications Commission for that very purpose.

There were — and still are — many amateurs whose whole interest is wrapped up in the high bands. They have no desire to work the low bands.

They have retained their Technician status because it puts them where they want to be.

As more and more fugitives from 20 meters join the freewheeling crowd on the 2-meter repeaters, it would be a good idea to remind them who built 2 meters.

While they were too busy chasing low band DXCC with 2kW amplifiers and monster antenna arrays, those lousy little Technicians were making 2-meter FM work.

The least they can do is say thanks.

— Home News

How do you become a RACES operator? You must have an FCC amateur or commercial radio license (the Temporary Limited Radio-Telegraph Second Class Operator License and Aircraft Radio Telephone Operator Authorization do not meet this requirement). You must obtain written certification from the local or State Civil Defense Director attesting to your loyalty and reliability.

If you are already an FCC licensed Amateur Radio operator, by joining RACES you can help provide communications to (1) warn against imminent natural or man-caused disaster, (2) alleviate suffering, (3) preserve property, and (4) maintain law and order. Amateur Radio history is filled with examples of these four factors — helping the community through the unknown elements that are or might be.

Victor Valley, CA, ARC

Coax trick

If you use RG58 cable you might try this one. Soldering and desoldering the PL259 plug will often produce a sticky mess if you overheat the plug. This overheating can cause your coax to short out. The adaptor tubes that screw into the PL259 can be easily modified to solve this problem. To do this you will need a hand drill, a 1/8" bit and a 7/32" bit. I like to do about 10 tubes at a time so that I can have them handy.

First, drill the side of the small end of the adaptor with the 1/8" bit. This forms a solder hole and if you wish, you may drill all the way through. Ream out the tube to 7/32". This is only slightly larger than the present hole in the tube. Do not use a power drill, because it will grab and spin the adaptor. Drilling the second hole will remove the burr of the 1/8" hole.

To use your modified adaptor, strip back 3/4-1" of the outer insulation. Fold the braid back over the jacket and insert it into the tube. Solder through the hole in the side. Strip off the center conductor about 1/2". Screw the adaptor and coax in and solder the tip. To desolder just heat the tip and unscrew. Connectors modified this way can also be waterproofed by dabbing a small amount of bathtub caulk on the end of the adaptor tube before it is screwed in and soldered. This will prevent the braid from picking up water.

— Podunk News

NEAT idea

What do you
want in a
program?? Let
your Singers
do the walking!
call 640-5456.
Let's have some
IDEAS !!!!!

DINNER MENU

Would you believe-an honest to goodness Spaghetti dinner with all the trimmings for \$4.00. OR-the good old Cheesburger Basket for \$2.60. Why don't you give the Old Lady (said we would no longer use the term XYL in this rag) a cooking break and drag her to a meeting. How about it Dennis??? (WB7VTG)

RAFFLE

Doug, W7XI, has been doing a great job of fleecing you of your dollars. This meeting you might bring an extra ONE because there is going to be a SPECIAL give-away offered. With Electra-Tech of Hillsboro entering the picture, we will have additional goodies to give away. Wonder what the SPECIAL give-away is????? Shucks, it's only money!

MEMBERSHIP APPLICATIONS

We are working on new forms. Some additions as well as deletions are involved and the reason is to better adapt to the changes that the club has incurred over the past two + years. There are, primarily, two important changes. One is ask the name of your wife (husband) because in the past, our cooking committee for Field Day has been in the dark as to who to call for help. The same holds true for our pot-luck activities. The second change is to ask the new member what his or her occupation is. If you are a welder and the club owned tower develops a break it could be your opportunity to help us out. There may be a mailing in regard to these particular items and it is hoped that you will respond.

APOLOGIES

Larry Ogburn was listed in the Silent Mic section but it has since been learned that he has been in the hospital and fortunately all is A-OK. Sure hope that you are feeling better Larry and good luck on a speedy recovery. Like to see you back in action soon!!

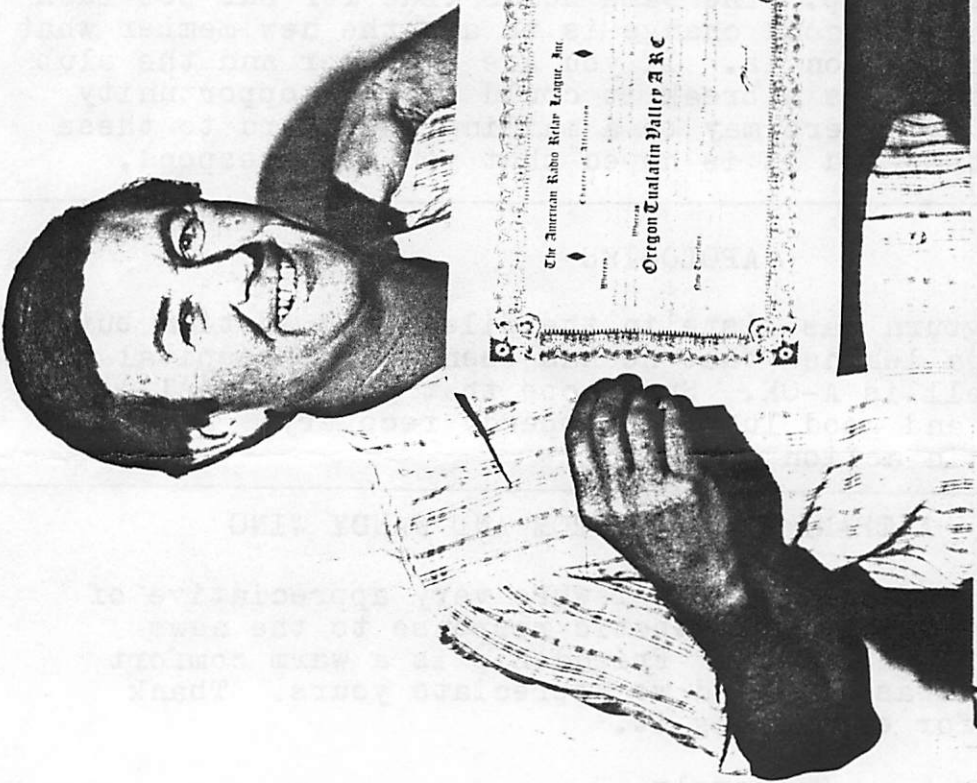
A THANK YOU FROM TOM AND NANCY WING

Dear Friends, Tom and I were very appreciative of the floweres sent in sympathetic response to the news our baby Vivian had died. Friendship is a warm comfort at such a time as this and we appreciate yours. Thank you so much for expressing it.

Sincerely,

Nancy Wing

Does anyone have pictures or slides of our Field Day event? Would like to borrow them for reproduction and to use for a club show. If so, please call me at 640-5456 and or bring them to the meeting. THANKS!!



OTVARC

XMAS PARTY

Mark your calendar now for the big event of the year. Last years party was a WHOPPING success and there is no reason to believe that this one will be any different. We had a 95% member turnout last year and plans are being made to do a re-run this year. The date?? Saturday the 20th of Dec.. Time?? 7:00 P.M.. Place?? The home of Al Berg, WB7SIC. It appeared last year that the house was bulging but as a matter of fact, two rooms were not used and this year it is planned to heat and decorate the garage. This is an ADULT ONLY party. You guys out there who don't let the wife know what is going on are defeated on this one. Your phone will be ringing for a personal invitation!!! You will be getting more info later. PLAN ON IT!!!!!!!

JACKETS ARE HERE

Those of you who have had jackets on order will be happy to know that YOURS will be available at the meeting. You are requested to bring the money to pay for it!! Had the chance to wear mine during the Hillsboro Halloween Spook Patrol and after several hours with the car window down and the rain coming in, found that the investment was worth it. VERY NICE JACKET!! YOU might consider ordering one!!

FIELD DAY RESULTS

Most of our members are ARRL members and receive QST but, for those of you in the dark, please be informed that we came in #7 in the nation in the 3-B class. Not too shabby when you consider our location in regard to elevation. Plus the fact that this is our second year involving FD.. Terac was first but given the mountain top location and emphasize CW, we would give them a run for it!! GOOD SHOW. Maybe next June-----hmm?

PROGRAM*PROGRAM*PROGRAM

Have you ever wondered how slow-scan TV works?? Maybe you have done some reading up on it but still are a little in the dark as to how it works. Could be you are interested in eventually getting into showing off your mug to some DX station or how about WAS on SSTV?? What you always wanted to know about SSTV will be demonstrated at the upcoming meeting. Mr. Ed Dobson, W7QQF, will be bringing most of his equipment and will give us a real dog and pony show on SSTV. He is very adept in this area of amateur radio and you are missing a real treat if you don't get out and give Ed and your club the pleasure of your company. C U ALL there!!!

OTVARC
P. O. BOX 5132
BEAVERTON, OR 97006



~~Linda O'Grady
4535-3 5W Luradel St.
Portland, Ore. 97219~~

PROGRAM*PROGRAM*PROGRAM

Have you ever wondered how slow-scan TV works? Maybe you have some reading up on it but still are a little in the dark as to how it works. Could be you are interested in eventually getting into showing off your mug to some DX station or how about WAB on 23TV? What you always wanted to know about 23TV will be demonstrated at the upcoming meeting. Mr. Ed Dobson, W9ED, will be bringing most of his equipment and will give us a real dog and pony show on 23TV. He is very adept in this area of amateur radio and you are missing a real treat if you don't get out and give Ed and your club the pleasure of your company. C U All there?